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THE ENGINEERING DIRECTORATE OF THE USSR

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FOREWORD

Activities concerning the procurement and distribution of military end items by the USSR have been concealed from Free World observers. Because of the scarcity of data concerning Soviet national defense operations, it has been difficult to determine the foreign trade mechanisms that have been employed for the procurement of military end items by the USSR and other members of the Sino-Soviet Bloc. This report deals with the Soviet Engineering Directorate, which is responsible for procuring, within the USSR, certain items of military equipment destined for export to other countries of the Bloc and to the Free World. It is responsible for externally purchasing certain raw materials and items of equipment of direct military importance to the USSR. This Directorate also coordinates the activities of similar directorates within the European Satellites.

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CIA/SC/RR 152
(ORR Project 42.919)

THE ENGINEERING DIRECTORATE OF THE USSR*

Summary

The Engineering Directorate of the USSR, currently believed to be subordinate to the Chief Directorate of Economic Relations (GUES) (which is now attached directly to the Council of Ministers), was formerly a part of the Ministry of Foreign Trade. The Directorate has been operating in some form since at least 1935 in the procurement of certain military end items and related goods for export from the USSR. In the years before World War II this organization operated openly as a section under the Peoples Commissariat of Foreign Trade. During the war years, as external procurement of military goods increased because of Lend-Lease operations, the status of the organization was raised to that of a directorate. In the postwar period the Directorate has operated not only for external procurement of strategic military materials for the USSR but also as an exporter of military and quasi-military goods to the other members of the Sino-Soviet Bloc. The Engineering Directorate openly operated in certain Free World countries in the earlier postwar period. As the tensions of the cold war mounted and as Free World trade controls on strategic exports to the Bloc developed, procurement activities of the Engineering Directorate in the Free World became more clandestine. No overt Soviet publication since 1946 has mentioned the Directorate. The distribution of military and quasi-military equipment to other members of the Sino-Soviet Bloc has continued since 1948 with particular emphasis on shipments from the Engineering Directorate to Communist China during the period of the Korean War.

The first postwar evidence of the export of military equipment to a non-Bloc country by the Engineering Directorate was observed in late 1955, when a shipment of military [] was sent to Yugoslavia. Since that time, [] several instances in which the Soviet Engineering Directorate has been involved indirectly in the shipment of arms to certain Free World countries through the medium of Czechoslovakia. These military exports appear to be a part of the new Soviet policy aimed particularly toward the countries of the Middle East. Finally, [] the evolution of an Engineering Directorate complex throughout the Sino-Soviet Bloc. This complex points to the development of a greater coordination of the military and quasi-military trade activities of the Bloc.

* The estimates and conclusions contained in this report represent the best judgment of ORR as of 1 August 1956.

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I. Early Development.

The Engineering Directorate (Inzhenernoye Upravleniye) of the Soviet Ministry of Foreign Trade (Ministerstvo Vneshney Torgovli) probably evolved from the old Engineering Section (Inzhenernyy Otdel) of the Peoples Commissariat of Foreign Trade (Narodnyy Kommissariat Vneshney Torgovli -- NKVT). The date of origin of this Engineering Section is not known, but available records show that the Section was operational as part of the Soviet Purchasing Commission in Prague in 1935. An examination of correspondence between officials of the Skoda enterprises and the Soviet Purchasing Commission during the period 1935-41 reveals that the Engineering Section had personnel attached to this Commission for the purpose of procuring armaments, as well as equipment for the production of armaments,* from Skoda factories. 1/** Personnel of the Engineering Section also procured technological data and plans relating to the manufacturing and processing of military items such as artillery projectiles. 2/

Negotiations in the earlier periods (1935-41) were conducted in a much more overt manner than the current methods of procurement employed by personnel of the Engineering Directorate. For example, personnel employed by the Soviet Purchasing Commission in Prague openly informed Skoda representatives in August 1940 that payment for 210-mm artillery equipment procured from Skoda would be made from funds remitted by the Engineering Section of the Peoples Commissariat of Foreign Trade to Skoda's account in the Chase National Bank of New York. 3/ It is also known that as early as 1935 the Engineering Section employed Czechoslovak nationals in Prague. 4/

Other examples exist which point to the overt nature of the procurement operations of the Engineering Section before 1947. A 1945 publication listed the Engineering Section among the import combines of the USSR as follows:

Engineering Section of the Foreign Trade
Commissariat of the USSR, abbreviated to
Engineering Section of the NKVT, Ulitsa
Kuibysheva 23, Moscow. Has charge of the
importation of articles of military equip-
ment. *** 5/

* Procurement efforts from Skoda during this period included purchases of 210-mm and 305-mm artillery guns and projectiles, 122-mm projectiles, and machinery for the manufacture of 122-mm and 152-mm projectiles.

** Serially numbered source references are to sources listed in Appendix D.

*** Throughout this report, Russian names in quoted material are shown as transliterated by the originator.

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Other information concerning the existence of the Engineering Section as well as concerning its general function of externally procuring military equipment for the USSR can be obtained from a review of Lend-Lease operations. An examination of various ship manifests listing Lend-Lease equipment destined for the USSR shows that the consignee was "NKVT Injenerny Otdel, Moscow, USSR." 6/

A check of Lend-Lease shipping manifests also shows that frequently the consignee of the goods sent to the USSR was listed as NKVT. An examination of the order number markings reveals, however, that these goods had the Soviet organizational designator assigned to the Engineering Section. 7/

No information is available to mark the exact date on which the Engineering Section achieved the status of a directorate, but this probably occurred during the period of Lend-Lease operations when the external military procurement efforts of the USSR were at a high level. Lend-Lease shipping manifests show that the Engineering Section was the consignee for military end-use items in January of 1944, but that the "Injernerne Upravlenie NKVT USSR" was the consignee on some manifests in the latter half of 1944. 8/ It is interesting to note that in December 1947 the Amtorg Trading Corporation was procuring radio equipment in the US for the Engineering Directorate of the USSR. 9/

The last observed reference published by the USSR that mentioned the existence of the Engineering Directorate was an announcement of the assignment of Ya. Ya. Saltanov to the Engineering Directorate of the Ministry of Foreign Trade as a Deputy Chief. 10/ No other mention of personnel assigned to or detached from the Engineering Directorate has been noted since in Soviet publications.

II. Postwar Period.

In the postwar period the activities of the Engineering Directorate have been largely concealed from the Free World. Two important reasons for the departure of the Engineering Directorate from the more orthodox and overt methods of procurement and distribution of foreign trade probably have been (1) an increased desire on the part of the USSR to conceal from the West the procurement and distribution of military end items in the sphere of Soviet foreign trade and (2) the Free World's embargo on the shipment of strategic goods to the USSR and other members of the Sino-Soviet Bloc.

When the Free World initiated a system of trade controls against members of the Sino-Soviet Bloc, the procurement problems of the Engineering Directorate in non-Bloc areas increased because most of the items desired by this Directorate fell into the category of strategic goods. Consequently, procurement efforts by personnel of the Engineering Directorate assigned to various posts in the Free World had to be handled either through clandestine trade channels or through

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the more orthodox trading organizations attached to the Ministry of Foreign Trade.*

Available information indicates that the Engineering Directorate** is now apparently subordinate to the Chief Directorate of Economic Relations (Glavnoye Upravleniye Ekonomicheskikh Sootnosheniy -- GUES). 13/ GUES, which was at one time subordinate to the Ministry of Foreign Trade, is now attached directly to the Council of Ministers. 14/ The function of GUES is supervision of the Soviet economic aid program*** -- both within and without the Bloc. As such, GUES, for example, has established representatives or offices in Communist China, Vietnam, India, Burma, and Yugoslavia. In placing the Engineering Directorate under GUES, the USSR has organizationally arranged for close coordination of both its economic and military assistance programs in foreign countries.

This coordination would be logical in light of recent Soviet efforts to increase its economic offensive in underdeveloped areas as well as in countries not firmly committed to either the West or the Soviet Bloc.

III. Organization.

Although only limited information is available concerning the organization of the Engineering Directorate of the USSR, some of its main departments and their areas of responsibility have been identified. These departments and their areas of responsibility are as follows: [] Department 3, land armaments 1 [] Department 4, land armaments 17/; Department 5, marine equipment 18/; and [] duty with the Engineering Directorate. 19/

* This speculation is based on the fact that certain Lend-Lease shipments during the war years had the consignee listed as either the Ministry of Foreign Trade or Promsyryeimport (organization procuring raw materials). []

[]

** In addition to references to the Engineering Directorate, the "Chief Engineering Directorate" and even to the "Chief Engineering Directorate of the Chief Directorate of Economic Relations." 12/ Although it appears confusing to carry one chief directorate as subordinate to another, such a situation is evidently the case with the Chief Engineering Directorate and GUES. It is currently believed that the Engineering Directorate is substantially autonomous and is apparently subordinated to GUES, possibly for purposes of coordination and convenience.

*** Technical assistance, scientific collaboration, construction of enterprises in foreign countries, training and dispatching specialists, and granting credit.

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In addition to the departments enumerated above, []

[] during the period of Lend-Lease operations have
[] "NKVT -- Transport Department, Engineering Ad-
ministration, Moscow, " []

[] it is quite plausible that
a department handling transportation functions is still operational.*
(See Figure 1, which shows the evolution of the Engineering Direc-
torate.**)

IV. Methods of Operation.

A. Functions.

By an examination of intelligence data []
dealing with particular activities of the various departments, it has
been possible to ascertain some of the major functions performed
by the Engineering Directorate of the USSR.

In general, the Engineering Directorate functions as a
procurement agency (both intra-Sino-Soviet Bloc and in the Free
World) of military equipment and goods destined for military
end use. It also serves as a distributor of military equipment to
other countries of the Sino-Soviet Bloc. On only one occasion has
the Engineering Directorate "directly" exported to a non-Bloc
nation,*** though evidence indicates that it has indirectly authorized
Czechoslovak exports to non-Bloc nations.

In addition to its military procurement functions, the
Engineering Directorate has engaged in a number of other activities.
Within the Sino-Soviet Bloc the Directorate has been observed as an

* The current departments functioning under the Engineering Direc-
torate bear a marked similarity to various departments of the Soviet
Purchasing Commission stationed in the US during the period of Lend-
Lease operations. The Soviet Purchasing Commission had Aviation,
Radio-Electrical, and Marine Departments which were similar to
counterparts now functioning in the Directorate. The Tank Department
and the Artillery and Ammunition Department of the wartime Soviet
Commission apparently performed the functions now carried on by
Department 3 (Land Armaments). The Commission's Marine Trans-
portation Department would probably be similar to the Transportation
Department tentatively believed to be a part of the current organiza-
tional pattern of the Engineering Directorate. No department in the
Engineering Directorate has been noted which corresponds to the
Quartermaster Department in the Soviet Purchasing Commission.

** Following p. 6.

*** This particular shipment was to Yugoslavia, a country not
regarded by ORR as a member of the Sino-Soviet Bloc.

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organization which has rendered assistance aimed at building and improving a network of civil airlines. It also has given assistance to certain Bloc nations to improve their marine facilities. The Engineering Directorate also appears to be providing military technical assistance to improve the national defense technology of certain Bloc nations. Finally, the Directorate has been observed as a purchaser of certain scientific instruments for research at various Soviet educational institutions.

1. Procurement from the Free World.

Following the conclusion of World War II, the Engineering Directorate operated, either directly or through the personnel of various Soviet trade organizations, in the procurement of goods having a military use from non-Bloc countries. With the mounting tensions of the cold war and the introduction of Free World trade controls, however, the procurement activities of the Directorate were greatly impeded in the West because they were largely directed toward the acquisition of strategic goods for the USSR.

procurement efforts by the Engineering Directorate were made in Free World countries on a large scale before 1952. The major areas of operation appear to have been Western Europe and the US. Transactions involving electrical and communications equipment, precision instruments, and various types of engines were carried out with Belgium, the UK, the Netherlands, Sweden, Switzerland, and the US.*

The effects of trade controls on the export of strategic goods to the Sino-Soviet Bloc undoubtedly played an important part in the official withdrawal of the Engineering Directorate from non-Bloc markets as a buyer of strategic goods. After the imposition of trade controls, the clandestine activities of the Directorate increased considerably, and it became apparent that most of its operations in the Free World were conducted in this manner. In recent years, efforts on the part of the Directorate to obtain strategic goods from the West have probably been attempted through covert means. It is likely that Directorate personnel assigned to posts in the Free World have assumed the disguise of orthodox Soviet trading representatives and that many transactions handled by the orthodox trading organizations actually have been negotiated for the Engineering Directorate.

2. Procurement Within the Sino-Soviet Bloc.

Although the Soviet Engineering Directorate primarily has been an exporter of military end items and equipment to other members of the Sino-Soviet Bloc, it has, nevertheless, established an extensive contact system throughout the Bloc and has been known to import various types of equipment, particularly communications equipment, from the more highly industrialized Satellites --

* More detailed information concerning these transactions is given in Appendix A.

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Czechoslovakia, East Germany, and Hungary.* To facilitate these transactions, it has been reported that contacts exist, for example, between certain technical enterprises of East Germany** and Czechoslovakia*** and Soviet personnel interested in military procurement for the USSR. Personnel of the Engineering Directorate throughout the Bloc apparently purchase materials for the USSR's national defense effort as they are needed.

As in the prewar period, the Engineering Directorate has continued to employ inspectors**** to approve equipment produced in foreign factories for export to the USSR. Personnel performing this function have been observed in Free World and Satellite countries. In the more highly industrialized Satellite countries such as East Germany and Czechoslovakia, inspectors from the Engineering Directorate have been assigned such duties as "negotiating production contracts, inspecting equipment and directing shipments." 23/ Up to about 1952, personnel in East Germany had been addressed by military rank even though they wore civilian clothes, but since that time they have preferred to be addressed as civilians. 24/

3. Distribution to the Free World.

Examination of available information on the Engineering Directorate failed to reveal any indication of this organization exporting equipment in the postwar period to any Free World country, until negotiations for the export of military tires to Yugoslavia were first noted [] between October and December 1955. These tires, []

[] have been the only evidence that the Directorate has exported beyond the borders of the Bloc. 25/ [] the Engineering Directorate has on occasion []

* More detailed information concerning these transactions is given in Appendix A.

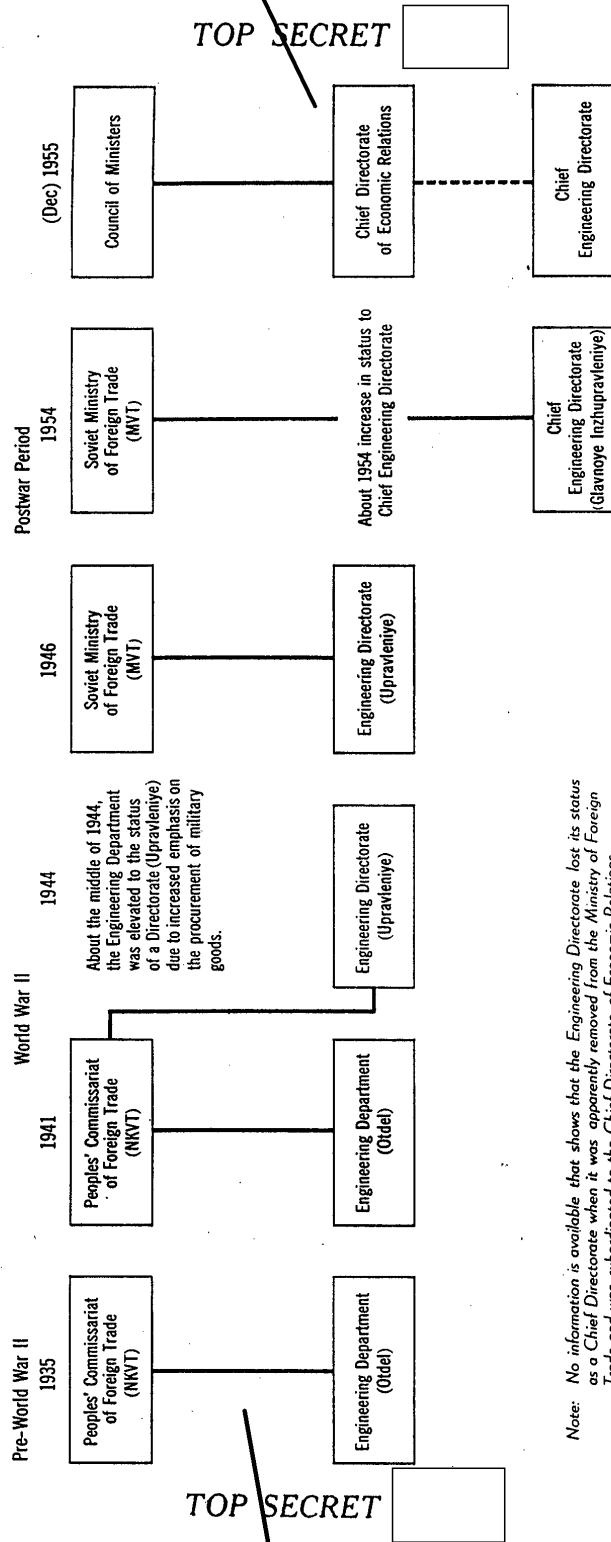
** DIA Electrotechnik 21/ and DIA Feinwerk-Technik. 22/

*** Skoda enterprises.

**** See Appendixes B and C

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EVOLUTION OF THE ENGINEERING DIRECTORATE



Note: No information is available that shows that the Engineering Directorate lost its status as a Chief Directorate when it was apparently removed from the Ministry of Foreign Trade and was subordinated to the Chief Directorate of Economic Relations.

Figure 1

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4. Distribution to the Sino-Soviet Bloc.

One of the most important functions of the Engineering Directorate has been to serve as a focal point for the distribution of military equipment as well as military end-use items to the other members of the Sino-Soviet Bloc. []

[] attests to the substantial efforts of the Directorate in supplying large quantities of military equipment to the members of the Sino-Soviet Bloc. []

[] it is seldom possible to obtain exact information as to the types of equipment that the Directorate is exporting to the Bloc for local defense establishments. []

In general, [] show that all the departments of the Engineering Directorate have been active in distributing military end items to the Sino-Soviet Bloc. Aviation equipment, land armaments, electrical and electronic goods, and marine products have, since 1948, been exported to Bloc members through Engineering Directorate channels. Also, Soviet technicians under Directorate control, have been active in assisting other Bloc countries.

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During the period of the Korean War, substantial shipments of equipment were sent by the Engineering Directorate to the Far East. []

The table indicates the [] credit distributed among the identified and unidentified departments. It represents only minimum known payments to the Engineering Directorate and does not account for a large amount of equipment that may have been loaned or given outright to the Chinese Communists by the USSR.

5. Other Functions.

One apparent function of the Engineering Directorate, particularly observed in the European Satellites, has been the assistance provided to certain countries for the purpose of developing their civil airlines. Activities of this type have been noted in Bulgaria, Poland, and Czechoslovakia. 31/

The Engineering Directorate also has been active since 1949 in aiding Sino-Soviet Bloc countries in the development of port installations and in the supplying of marine equipment, both for port use and for use aboard ships. 32/ [] evidence of the Directorate helping in Satellite ship repair both on the Danube River and in the Black Sea region. 33/ Technical assistance and marine equipment have also been extended to the Chinese Communists. 34/ It has been noted that Soviet shipbuilding specialists, operating on an Engineering Directorate Department 6 contract, are currently involved in aiding the Chinese in shipbuilding production. 35/

[] on occasion, the Engineering Directorate has served as a procurement agency for scientific equipment for certain research institutions of the USSR.

[] the Engineering Directorate had been engaged in procurement activities for the Soviet Atomic Energy program before July 1948. It is possible that atomic procurement activities have continued since that time. [] the possible transfer of responsibility for atomic procurement from the Engineering Directorate to the All-Union Association for Technical Industrial Import. This

* The table follows on p. 10.

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Table

Known Minimum Chinese Communist Purchases from the Soviet Engineering Directorate a/
1950-54

	1950				1951				1952				1953				1954				1950-54 Cumulative Total			
	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent	Million Rubles	Percent
Department 3 (land armaments)							92	29	223	31	348	72	663	40										
Department 4 (electronics)			3	2	19	6			2														24	2
Department 5 (marine equipment)					7	2			38	6	24	5	69	4										
Total (identified payments)	136	100	319	100	87	100	715	100	485	100	1,655	100												
Unidentified payments	110		181		87		408		16		802													
Total payments	110		317		406		1,123		501		2,457													

a. 37/

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information, however, may have referred only to a transfer of responsibility for procurement and not to the assumption of technical control of procurement. 38/

revealed the existence of a close-working relationship between the Directorate and various Soviet factories working on defense production. They indicate that the Engineering Directorate has negotiated directly with these factories for the export of equipment produced on Directorate contract for distribution to other Bloc countries. 39/

B. Control Numbers.

To insure a system of control over the procurement and shipment of commodities falling within the jurisdiction of the Engineering Directorate, a system of control numbers, similar in their basic form to those employed by the orthodox trading organizations of the Ministry of Foreign Trade, is used for most transactions. The most important of these control numbers are the contract, the zakaz-naryad (order requisition number), and trans numbers.

The contract system involves a number assigned a particular transaction or group of transactions. The component parts of the Engineering Directorate contract are as follows: (1) a two-digit designator which signifies that the Engineering Directorate is handling the order, separated from the remaining digits of the contract by a slash; (2) the year in which the order was placed, which is indicated by the first digit following the slash; (3) the department of the Directorate concerned with the specific type of goods covered by the contract, which is determined from the second digit following the slash; and (4) the last three digits, which make up the contract serial number. 40/ In addition to these component parts, the Directorate has been known occasionally to include a country designator of two digits, normally separated from the rest of the contract by a dash. 41/ For example, contract 80/52113-02 would be interpreted as indicating that the Engineering Directorate (80)* in 1955 (5) for department 2, had a contract with a serial number (113), with East Germany (-02). It should be noted that in most cases the contract used by the Engineering Directorate does not make use of the country designator.

The zakaz-naryad (order requisition number) is apparently an authorization to supply a particular commodity, or a series of

* Although (80) is most frequently seen as the designator for the Engineering Directorate, other designators have been employed to identify contracts of this Directorate. In England, contracts used by Directorate personnel were sometimes marked with the designator (55A). Also, it has been observed that during the Lend-Lease period, goods consigned to the Engineering Section, in addition to the usual (80) designator, sometimes used a (35) and (82) designator.

The (80) designator of the Engineering Directorate dates back at least to the 1940 period, when markings of goods procured from the Skoda Company and destined for the Engineering Section of the NKVT bore the designator (80).

commodities, in accordance with a specific allocation. This device is seen in Engineering Directorate shipments to other members of the Sino-Soviet Bloc. The component parts of the zakaz-naryad are as follows: (1) an Engineering Directorate designation, separated from the remaining digits by a slash; (2) the department handling the order, determined by the first digit following the slash; (3) the country designator to which the goods are to be delivered, determined from the 2 digits following the department number; and the final 4 digits, which appear to function as a serial number. 42/ For example, zakaz-naryad 80/2362223 would be interpreted as indicating that the Engineering Directorate (80) department (2) was shipping aviation equipment to Rumania (36), with a possible serial number of (2223).

The Engineering Directorate also uses trans numbers which consist of from 4 to 6 digits which indicate to frontier authorities the destination of a shipment and the raznaryadka* applying to it.

V. Engineering Directorate Complex.

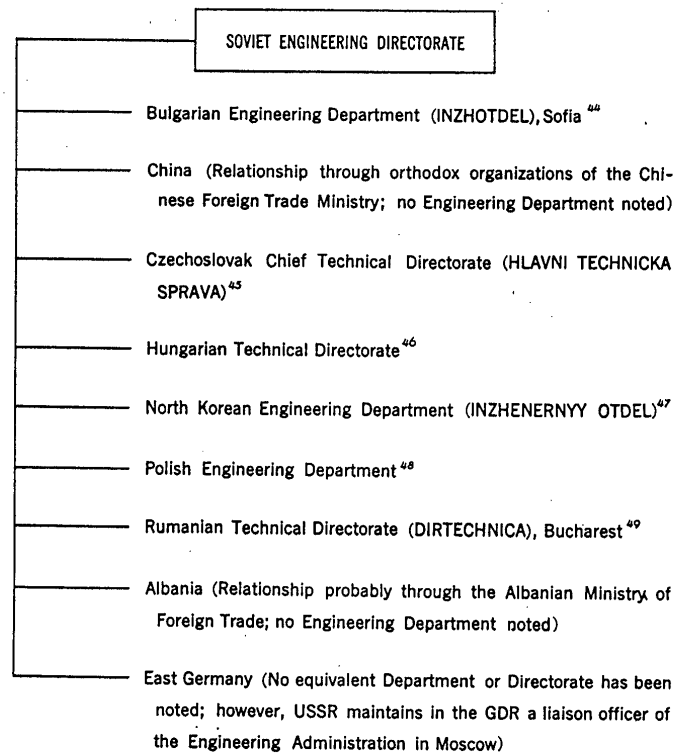
As the process of consolidation of the Satellite countries into a political and economic Bloc progressed, it became apparent that the national defense establishments of these countries would require some type of organization, similar to the Soviet Engineering Directorate, to perform the functions of procurement and distribution of equipment needed for national defense. Because the USSR since 1948 had been supplying these countries with military end items, it was a logical development for an Engineering Directorate Complex to evolve throughout the Soviet Bloc. These counterparts of the Soviet Engineering Directorate, 1952 operate as subordinate organs of their respective Foreign Trade Ministries. Figure 2** lists the names of the Satellite organizations which comprise the network of Engineering Directorates functioning within the Sino-Soviet Bloc. No Engineering Directorates have been noted in Albania, Communist China, or East Germany. From available information it is apparent that shipments to Albania and Communist China are probably handled either by orthodox organizations of their respective Ministries of Foreign Trade or by logistic organs of their national defense establishments. Although no information is available concerning the existence of any specific counterpart of the Soviet Engineering Directorate in East Germany, it is known that unspecified equipment from the Soviet Engineering Directorate has been shipped to the Ministry of the Interior of the GDR. It is also known that the Soviet Directorate maintains liaison officers in East Germany. It is probable, therefore, that some department within the Ministry of the Interior is currently performing the function of an Engineering Department. 50/

* The raznaryadka is a document containing information on the name and address of the consignee as well as instructions on the specific markings of the shipment. 43/

** Following p. 12.

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ENGINEERING DIRECTORATE COMPLEX



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Figure 2

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These organizations, comprising the Complex, work very closely with the Soviet Engineering Directorate. Before their emergence, the Soviet Directorate carried on negotiations with the Satellites largely through the orthodox trading organizations of their respective Ministries of Foreign Trade. Now that the Satellite countries have Engineering Departments operating, the Soviet Directorate is negotiating more transactions with the Complex and less with the orthodox trading agencies. 51/

It is difficult at this time to determine the degree of coordination that has been achieved by the Soviet Engineering Directorate. That some coordination exists is evidenced by the consignee numbers used within the Complex. []
[]

Although the members of the Complex have primarily transacted business with the parent Soviet Engineering Directorate, [] [] direct negotiations among several of the Satellite counterparts of the Engineering Directorate. 56/ These working relationships among the various Satellite members point to an increasing attempt to coordinate the functions of the national defense procurement program of the Soviet Bloc. This would appear to be a logical development, in view of the Bloc Warsaw Treaty of Friendship, Cooperation, and Mutual Assistance of May 1955, which includes among its purposes a provision to provide "whatever subordinate bodies may be deemed necessary" to facilitate joint defense planning. 57/

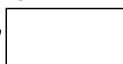
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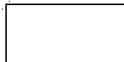
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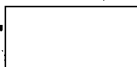
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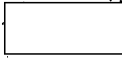
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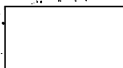
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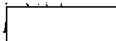
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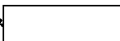
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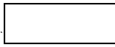


APPENDIX C

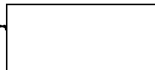
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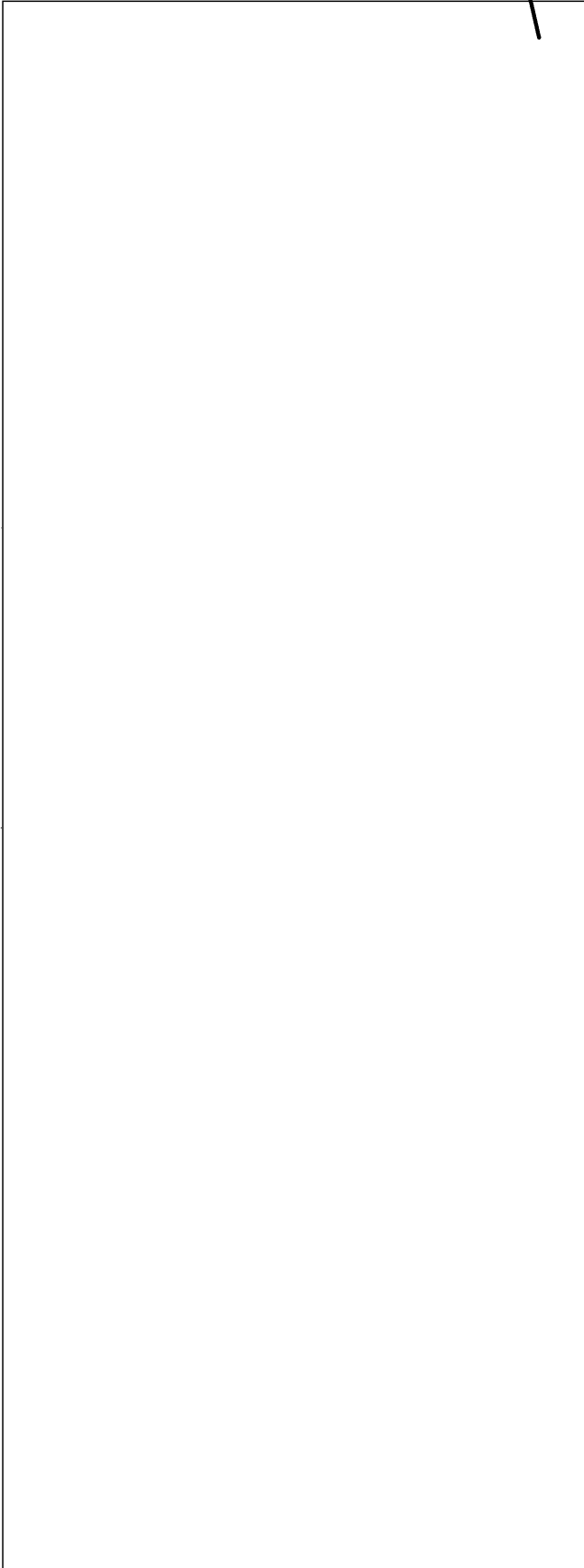
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APPENDIX D

SOURCE REFERENCES

Some information regarding the earlier activities of the Engineering Directorate in prewar Czechoslovakia were obtained from data located in the files of the Department of the Army, AGO, Department Records Branch, German Military Section. These data are catalogued under Records of the Soviet Purchasing Commission, November 1949 and deal with the activities of the Soviet Purchasing Commission in Czechoslovakia, 1936-41. Information abstracted from these files will be shown in the appropriate source reference by listing Soviet Purchasing Commission in Czechoslovakia and the folder number from which the data were taken.

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1. Army, AGO, Department Records Branch, German Military Section. Soviet Purchasing Commission in Czechoslovakia, folders SPC 155 and SPC 196. S. Eval. Doc.
2. Army, GSUSA. E-9038, part IV, nd, ID 635987, CIA 417548, p. 43. R. Eval. Doc.
3. Ibid., p. 11. R. Eval. Doc.
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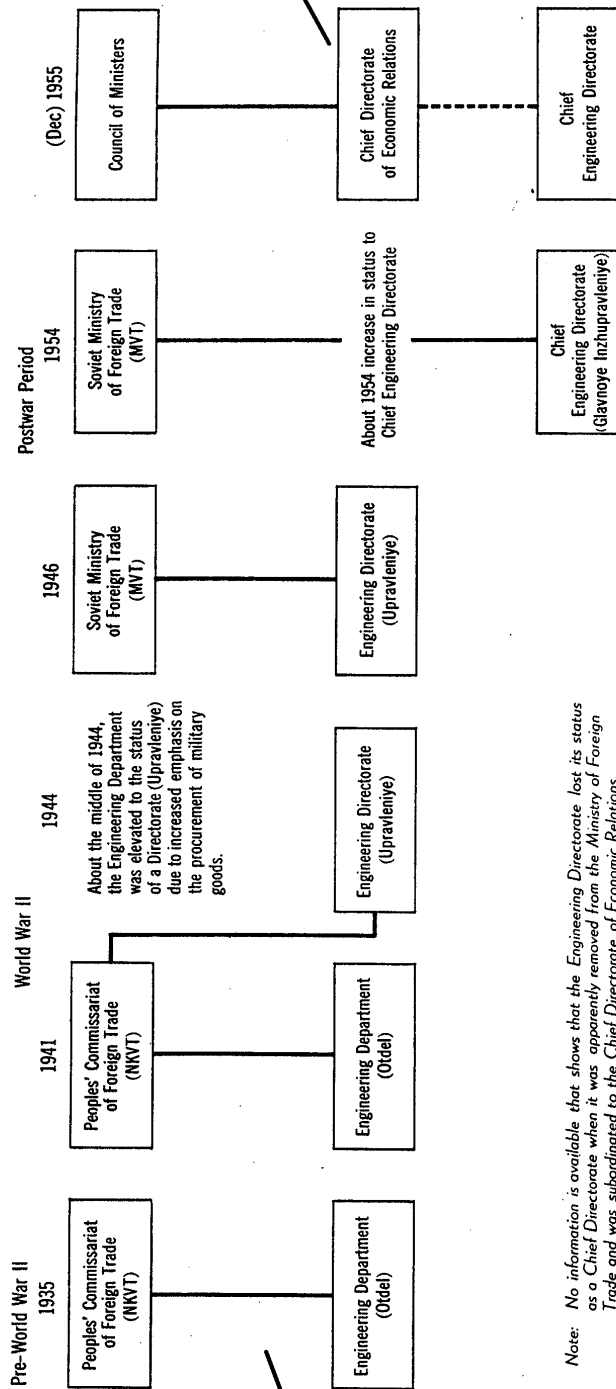
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EVOLUTION OF THE ENGINEERING DIRECTORATE

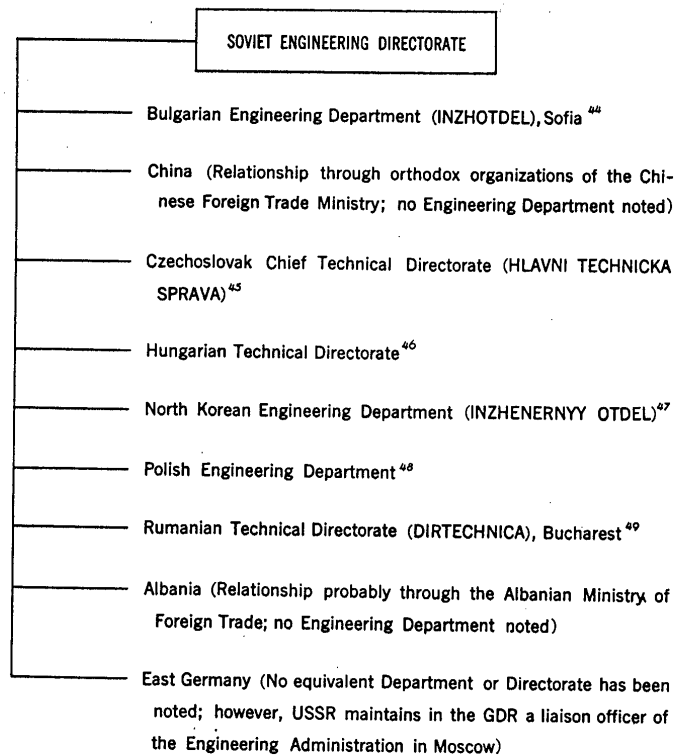


Note: No information is available that shows that the Engineering Directorate lost its status as a Chief Directorate when it was apparently removed from the Ministry of Foreign Trade and was subordinated to the Chief Directorate of Economic Relations.

Figure 1

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ENGINEERING DIRECTORATE COMPLEX



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Figure 2

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